

## CLIMATOLOGICAL DATA FOR OCTOBER, 1911.

## DISTRICT No. 11, CALIFORNIA.

Prof. ALEXANDER G. MCADIE, District Editor.

## GENERAL SUMMARY.

October in California is as a rule a month of much sunshine, little rain, and moderate temperature. In many respects it is the pleasantest month of the year. In the northern counties the rainy season begins with occasional showers, seldom heavy, and the rain is always welcome after the long dry period. In the central and southern counties the month is often a succession of dry warm days. The present month was normal, except that there was even less rain than usual, and the temperature was slightly below normal and also cooler than October, 1910.

There were no special disturbances. Near the close of the first decade a small depression passed rapidly southeastward over the Sierra, causing showers in the Great Valley and Bay section. No damage resulted to the raisins and other curing fruits, inasmuch as ample warnings were sent to all interested parties. The most noticeable feature of the second decade was the persistence of an area of high pressure over the Great Basin, causing north to northeast surface winds in the Great Valley and north winds in southern California. On October 16 the following high temperatures occurred: At Los Angeles, 94°; San Diego, 82°; San Francisco, 87°. At the last-named city this was the warmest day of the year. A maximum temperature of 95° was registered on the thermograph in the kiosk, located in one of the city parks. It is interesting to note that on the same date a temperature of 77° was recorded at the Southeast Farallon Island; 87° at Point Reyes Light, and 82° at Mount Tamalpais.

The high persisted until the middle of the third decade, when it moved slowly eastward. A southern storm developed over the Valley of the Colorado on October 26, causing showers in the territory south of the Sierra Madre.

The foehn effect referred to above in connection with the persistent high is not unusual, and attention has been previously called to this feature of California weather. The condition has also been noted during winter months, especially December.

The month as a whole must be regarded as very favorable from an agricultural standpoint. Fruit drying, raisin making, and the thrashing of beans were not interfered with to any great extent. When showers threatened ample warnings were given and wherever possible crops were gotten under cover. The great bulk of the crop was safely harvested. There was sufficient water for all purposes, the supply holding out well. There was a very light snowfall. The total for the month at Summit was only 3 inches, which rapidly melted. The month closed without any snow on the ground.

There was one storm which, while properly speaking, did not occur within the boundaries of District No. 11, should not be passed over without notice. At the close of September a depression of some depth was noted over Nevada and southern California. Whether this depression had any direct relation with the conditions prevailing over the Northwestern States of Mexico and the peninsula of Lower California is not known, owing to the absence of

reports; but a severe storm prevailed October 2, 3, 4, and 5, and much damage was done to shipping on the west coast of Mexico. Both in the Gulf of California and in the Pacific Ocean winds of hurricane velocity were experienced by vessels. It is reported that at Magdalena Bay three large stone warehouses were unroofed. At Guaymas on October 5 a tidal wave occurred, destroying many buildings, chiefly, however, adobe houses. The custom-house, with several hundred thousands dollars' worth of contents, was destroyed. It is reported that 27 vessels were wrecked, more than 40 lives lost, and that many miles of railroad track were washed away between Guaymas and Hermosillo.

## TEMPERATURE.

The mean temperature for the State was nearly 1° below the normal. The following table gives the mean temperature for California during the time for which such records have been kept:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
				° F.	° F.
1897.....	58.5	-1.4	1905.....	60.7	+0.8
1898.....	61.0	+1.1	1906.....	63.4	+3.5
1899.....	58.1	-1.8	1907.....	62.0	+2.1
1900.....	58.8	-1.1	1908.....	58.3	-1.6
1901.....	63.2	+3.3	1909.....	60.2	+.3
1902.....	60.7	+.8	1910.....	61.9	+2.0
1903.....	64.0	+4.1	1911.....	59.1	-.8
1904.....	61.6	+1.7			

The highest temperature reported at any station was 108° at Lemon Cove on the 8th. This was the same as the highest temperature reported during October, 1909 and 1910. The lowest temperature was 13° at Tamarack on the 2d, which was 2° lower than the lowest reported during October, 1910.

The highest mean temperature was 73.7° at Bagdad, and the lowest mean temperature was 38.2° at Tamarack. The elevation of this station is 8,000 feet. The mean temperature at Summit, elevation slightly over 7,000 feet, was 44°; and at Fordyce Dam, 6,500 feet, 43°. At Bishop, elevation 8,500 feet, the mean temperature was 42°. It is of interest to compare these high-level temperatures with those of the floor of the valley, which as a rule exceeded 60°.

## PRECIPITATION.

The average monthly precipitation for California for October is as follows:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
				Inches.	Inches.
1897.....	1.79	+0.17	1905.....	0.12	-1.50
1898.....	.59	-1.03	1906.....	.09	-1.53
1899.....	3.50	+1.88	1907.....	1.56	-.06
1900.....	2.34	+.72	1908.....	1.37	-.25
1901.....	1.50	-.12	1909.....	1.66	+.04
1902.....	1.78	+.16	1910.....	.83	-.79
1903.....	.49	-1.13	1911.....	.58	-1.04
1904.....	2.74	+1.12			

Twenty-three stations reported no rain. The greatest monthly amount was 4.11 inches at La Porte. Considering the section as a whole the rainfall was deficient. The distribution, both in time and locality, was more uniform than is generally the case in October. The greatest snowfall was 14.5 inches at Tamarack, or about the same as last year.

#### SUNSHINE.

The following table gives the total hours of sunshine and percentages of the possible:

Stations.	Hours.	Per cent of possible.	Stations.	Hours.	Per cent of possible.
Eureka.....	178	52	Sacramento.....	277	80
Fresno.....	324	93	San Diego.....	290	82
Los Angeles.....	283	81	San Francisco.....	244	70
Mount Tamalpais.....	267	77	San Jose.....	238	83
Red Bluff.....	272	79	San Luis Obispo.....	273	78

There was slightly more sunshine than during the same month of the preceding year.

#### NOTES ON THE RIVERS OF THE SACRAMENTO AND SAN JOAQUIN VALLEYS FOR OCTOBER, 1911.

By N. R. TAYLOR, Local Forecaster.

*Sacramento watershed.*—There was practically no difference between the average stages of October and those of the preceding month in the Sacramento River above Red Bluff, and from Sacramento City to the mouth of the river. At Colusa and Knights Landing the river averaged from three-tenths to five-tenths of a foot higher than during September. The river, however, was generally below the October normal, especially during the last decade of the month.

Reports from the American River at Fair Oaks show that this stream averaged below the October normal, and that there was practically no current in the river after the 15th.

The various forks that drain the higher regions of the Yuba-Feather territory carried less water than for any month since that of September, 1908, but there was little departure from the usual October normal at any point in

the Yuba itself below its first fork or in the Feather below Oroville.

There was a deficiency in rainfall throughout the Sacramento watershed.

The Natomas Consolidated Co. is engaged in the construction of levees along the east side of the Feather River from Vernon to Marysville. This company is also closing all breaks in the levees on the south side of the Bear River, which, in future, will confine the water to this stream and prevent its overflow into the American Basin.

All levees that protect the Colusa Basin from the Sacramento River have been repaired or strengthened, and Reclamation No. 108, which now comprises 53,000 acres in the Colusa Basin, is throwing up back levees of unusual proportions as a protection against the drainage of the Coast Range foothills. These back levees will roughly parallel the Coast Range and will extend from Knights Landing Ridge to a point near Colusa. On the west side of these levees there will be a canal 17 feet deep and 150 feet wide which, it is thought, will be sufficient to carry the maximum discharge of all streams between Stony and Cache Creeks.

The river station at Monroeville has been abandoned, and a new station has been established in the Sacramento River at Jacinto, which is nine miles below Monroeville and nine and one-half miles below the mouth of Stony Creek.

*San Joaquin watershed.*—Excepting the San Joaquin River above Friant, where the extreme low water was practically reached, and the Tuolumne River, which was the lowest ever recorded during any previous October, or during any month, except September, 1909, all streams in this watershed maintained higher stages than those usually recorded during the month in question. This was notably so of the Stanislaus below Melones, the Merced below Merced Falls, and the San Joaquin between Mendota and Antioch. The run-off in the Calaveras was the greatest ever before known in October, and at no time during the month was Mormon Slough dry between Bellota and Linden.

A new river station has been established in the Mokelumne River at Bensons Ferry, which is just below the point where the Cosumnes and Mokelumne join.

New gages, to replace those washed away during the floods of last winter, have been installed at Lathrop and Bellota.

TABLE 1.—Climatological data for October, 1911. District No. 11, California.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.								
<i>Oregon.</i>																						
Klamath Agency	Klamath.	4,169	3	44.4	.....	76	5	12	25†	58	.....	.....	.....	0	.....	20	7	4	n.w.	Edson C. Watson.		
Klamath Falls	.....	4,100	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Heleman.	
Lakeview	Lake.	4,825	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Bert Rice.	
Morrill.	Klamath.	4,070	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Agnes Ritchson.	
Yonna	.....	4,146	4	44.8	.....	72	6	16	28	50	1.09	.....	0.46	0	4	16	12	3	s.	Jacob Ruecke.		
<i>California.</i>																						
Alameda	Alameda.	1	59.2	.....	81	18†	7	39	11	39	0.40	.....	0.25	0	3	15	14	2	w.	Chas. E. Sears.		
Alturas	Modoc.	4,460	7	46.9	.....	79	1	51	31	31	0.25	.....	0.20	0	3	21	6	4	n.	Prof. C. B. Towle.		
Angiola	Tulare.	208	11	.....	.....	.....	.....	50	21†	52	0.13	.....	-0.68	0	2	29	0	2	sw.	Santa Fe Co.		
Antioch **	Contra Costa.	48	32	70.3	+ 6.9	89	30	50	29	.....	0.07	-0.73	0.07	0	1	26	0	5	e.	Southern Pacific Co.		
Aptos **	Santa Cruz.	102	28	58.7	+ 0.9	80	15	41	11†	1.18	-0.39	0.78	0.08	0	3	21	0	10	n.w.	Do.		
Arrowhead Springs	San Bernardino.	2,000	2	.....	.....	.....	.....	41	23	46	0.08	.....	0.08	0	1	25	4	2	w.	Dr. E. Soegaard.		
Auburn	Placer.	1,360	40	62.0	- 2.6	89	18	38	27	40	0.46	-1.41	0.23	0	3	26	0	5	n.w.	Southern Pacific Co.		
Avalon	Los Angeles.	1	63.5	.....	91	7	51	13	31	0.25	.....	0.25	0	1	28	1	2	w.	T. S. Manning.			
Azusa	.....	540	9	66.0	.....	102	16	42	5†	52	0.13	-0.68	0.07	0	2	29	-0	2	sw.	A. P. Griffith.		
Bagdad	San Bernardino.	784	8	73.7	- 0.4	93	15	53	23	29	0.00	.....	0.00	0	0	0	0	0	.....	Santa Fe Co.		
Bakersfield	Kern.	404	22	65.6	- 0.4	93	13	47	3	42	0.00	-0.47	0.00	0	0	0	0	0	.....	Do.		
Barstow	San Bernardino.	2,105	8	68.4	.....	96	18	41	23	46	0.08	.....	0.08	0	1	25	4	2	w.	E. L. White.		
Berkeley	Alameda.	317	24	59.1	+ 0.2	84	16	46	2†	28	0.73	-1.04	0.53	0	4	18	10	3	n.w.	State University.		
Biggs **	Butte.	98	12	62.2	- 0.2	81	16	45	2†	28	0.62	-0.90	0.57	0	2	25	0	6	s.	Southern Pacific Co.		
Bishop	Inyo.	4,450	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. A. Chalfant.	
Bishop Creek	.....	8,500	1	42.0	.....	65	17	22	11	34	0.20	.....	0.20	2.0	1	29	0	2	.....	Paul E. Lodge.		
Blacksburg	Humboldt.	1,700	5	62.5	.....	88	16	29	21	44	1.79	.....	0.74	0	6	16	7	8	n.w.	Victor Hope.		
Blue Canon	Placer.	4,695	12	53.2	+ 1.9	80	17	29	2	36	1.19	-3.86	0.57	2.0	3	24	3	4	n.	Southern Pacific Co.		
Blythe	Riverside.	2,667	1	58.7	.....	100	8	32	23	58	1.14	.....	1.10	0	2	25	6	0	n.	Ray W. Ward.		
Branscomb	Mendocino.	2,000	11	54.5	.....	88	16	31	10	44	2.49	-3.33	0.90	0	4	23	5	3	n.	A. J. Haun.		
Brawley	Imperial.	105	2	70.4	.....	97	14†	41	22†	47	0.24	.....	0.24	0	1	25	0	5	s.	M. D. Witter.		
Brush Creek	Butte.	2,140	7	58.4	.....	80	15	32	4	40	1.38	.....	1.05	0	4	26	0	5	n.	Cal. Gas & Elec. Co.		
Burney	Shasta.	3,300	1	47.8	.....	77	16	24	3†	49	1.38	.....	0.68	0	4	17	9	5	n.w.	Mrs. M. D. Chambers.		
Calexico	Imperial.	0	6	71.6	.....	96	15	46	22†	40	0.45	.....	0.45	0	1	30	0	1	n.	J. E. Peck.		
Caliente **	Kern.	1,290	35	62.4	- 2.4	72	25	52	7†	.....	-0.47	0.00	0.00	0	0	24	0	7	.....	Southern Pacific Co.		
Calistoga **	Napa.	363	39	55.0	- 5.0	82	19	34	1†	.....	0.84	-1.44	0.70	0	2	25	0	6	n.	Do.		
Campbell	Santa Clara.	217	14	57.2	- 1.3	83	17	35	3†	47	0.52	-0.33	0.31	0	4	21	7	3	n.w.	F. M. Righter.		
Camptonville (near)	Yuba.	3,500	4	59.3	.....	88	16	34	2	36	1.51	.....	0.58	0	6	15	11	5	n.	Cal. Gas & Elec. Co.		
Cedarville	Modoc.	4,675	17	48.6	- 0.3	78	7	26	21	44	0.31	-1.29	0.22	0	2	19	6	1	n.w.	T. H. Johnstone.		
Chico	Butte.	189	41	62.0	- 2.4	92	16	38	2†	46	0.31	-1.10	0.14	0	3	24	4	3	n.	G. H. Stephenson.		
China Flat	Humboldt.	600	2	56.0	.....	85	7	36	28†	45	0.73	.....	0.20	0	5	21	6	4	n.w.	O. I. Westerburg.		
Chino **	San Bernardino.	714	19	63.4	- 0.4	99	15	45	5†	.....	-0.00	-1.04	0.00	0	0	30	0	1	e.	Southern Pacific Co.		
Cisco **	Placer.	5,938	40	45.6	- 1.1	68	21	28	1	50	0.50	-0.50	0.50	5.0	1	21	0	10	n.	Do.		
Claremont	Los Angeles.	1,200	19	65.7	+ 3.3	90	16†	42	28	43	0.21	-1.01	0.07	0	5	22	6	3	w.	F. P. Brackett.		
Cloverdale	Sonoma.	340	8	60.6	.....	92	18	37	13	54	0.51	.....	0.22	0	3	26	2	3	n.	John O. Ogle.		
Colfax	Placer.	2,421	40	56.8	- 2.7	85	17†	35	5	36	1.43	-0.94	0.36	0	6	23	1	7	n.	C. D. McCormish.		
Colusa	Colusa.	60	8	59.1	.....	87	15	37	26	37	0.24	-0.77	0.20	0	2	25	4	2	n.	Southern Pacific Co.		
Corning **	Tehama.	277	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.	
Cuyamaca.	San Diego.	4,677	12	60.7	+ 1.1	77	17	29	22	42	0.68	-1.07	0.41	0	2	17	10	4	e.	L. L. MacQuarie.		
Daunt	.....	4,000	5	56.4	.....	88	16	25	2	50	0.20	.....	0.10	0	2	26	0	5	n.	D. L. Wishon.		
Davisville	Yolo.	51	39	59.4	- 5.5	91	16	34	2†	47	0.05	-0.82	0.05	0	1	24	6	1	n.	S. H. Beckett.		
Deer Creek.	Nevada.	3,700	4	50.8	.....	87	15	27	2	48	1.57	.....	0.61	0	5	24	3	4	n.	Cal. Gas & Elec. Co.		
Del Monte.	Monterey.	1,138	26	60.9	+ 1.6	88	16	44	6	36	0.42	.....	0.22	0	2	24	0	7	w.	H. R. Warner.		
Delta.	Shasta.	126	11	60.7	- 2.8	88	7†	35	31	44	0.00	-0.55	0.00	0	0	28	0	3	n.	Southern Pacific Co.		
Denair.	Stanislaus.	1,650	7	63.1	.....	96	18	42	2†	40	1.69	.....	0.43	0	6	11	19	1	s.	Santa Fe Co.		
Dobbins.	Yuba.	3,000	2	51.6	.....	88	16	25	5	49	0.26	.....	0.13	0	3	18	11	2	n.w.	Cal. Gas & Elec. Co.		
Dudley's Gap.	Mariposa.	68	34	60.2	- 0.1	85	17	52	31	.....	.....	.....	1.03	0	0	29	0	2	n.	W. H. Dudley.		
Escondido.	Yolo.	2,285	22	52.6	+ 0.2	78	16†	35	3†	47	1.64	-2.82	0.76	0	6	20	0	11	n.	Southern Pacific Co.		
Eureka.	Durham.	60	16	60.0	- 0.2	90	16	37	2†	46	0.73	-0.93	0.25	0	3	21	6	4	s.	R. W. Durham.		
Farmington **	San Joaquin.	111	32	64.5	+ 0.8	88	16	44	11	.....	0.10	-0.79	0.10	0	1	25	5	1	n.w.	H. H. Kessler.		
Folsom.	Sacramento.	252	39	61.7	- 2.3	91	16	40	5	40	0.27	-1.09	0.15	0	0	3	21	8	n.	Cal. Gas & Elec. Co.		
Fordyce Dam.	Nevada.	6,500	16	43.0	.....	68	23	25	2	40	1.45	-3.26	0.65	4.0	3	20	7	4	sw.	F. O. Hutton.		
Fouts Springs.	Colusa.	1,650	7	56.0	.....	87	16	31	2†	44	0.24	-0.10	0.08	0	0	10	5	2	n.	E. E. Roening.		
Fresno.	Fresno.	283	24	63.8	- 0.9	91	16	41	31	40	0.09	-0.44	0.08	0	2	26	5	0	w.	A. J. Burgi.		
Frito **	Glenn.	624	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.	
Galt **	Sacramento.	49	33	62.3	- 0.7	81	4†	45	1†	.....	0.30	-0.77	0.15	0	3	26	5	0	sw.	H. D. Jarrett.		
Georgetown.	El Dorado.	2,650	39	59.4	- 4.2	88	16	34	2†	37	1.61	-1.80	0.64	0	7	25	0	6	.....	Southern Pacific Co.		
Gilroy **	Santa Clara.	193	37	57.6	- 2.7	95	17	40	3†	.....	0.58	-0.54	0.50	0	3	25	0	6	se.	A. Dannenbrink Co.		
Gilta.	.....	3,300	1	57.4	.....	100</td																

TABLE 1.—Climatological data for October, 1911. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Prevailing wind direction.	Observers.
				Departure from the normal.				Greatest daily range.				Total.				Departure from the normal.					
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest.	Date.	Total.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>California—Continued.</i>																					
King City.	Monterey.	333	24	60.4	+ 1.1	96	25	25	30	56	0.05	- 0.74	0.05	0	1	29	0	2	s.	Southern Pacific Co.	
Lake Eleanor.	Tuolumne.	4,700	1	48.6	+ 2.0	76	16	19	2	43	4.11	- 3.34	2.50	5.0	4	24	4	3	n.	O. J. Todd.	
La Porte.	Plumas.	5,000	17	48.6	- 1.1	88	5	40	2†	46	0.00	- 1.24	0.00	0	0	31	0	0	w.	Chas. W. Hendel.	
Le Grand.	Merced.	255	11	63.7	- 1.4	108	8	40	5	47	0.00	- 0.75	0.00	0	0	21	10	0	w.	Santa Fe Co.	
Lemon Cove.	Tulare.	600	16	65.8	- 1.4	78	16	35	2	21	0.46	- 1.45	0.30	0	3	23	4	6	n.	G. W. Sandige.	
Lick Observatory.	Santa Clara.	4,209	22	53.8	- 0.2	98	16	35	2	21	0.46	- 0.42	0.22	0	3	23	6	2	w.	The Director.	
Livermore.	Alameda.	485	40	61.2	- 1.6	94	16†	39	2†	51	0.43	- 1.00	0.35	0	2	24	6	1	w.	E. G. Still.	
Lodi.	San Joaquin.	45	29	58.4	- 3.9	84	18	38	11	40	0.42	- 0.63	0.23	0	2	17	5	9	sw.	Ezra Fiske.	
Lone Pine.	Inyo.	2,728	6	55.2	.....	84	18	31	11†	48	0.63	.....	.....	0	1	28	3	0	s.	G. F. Marsh.	
Long Valley.	Lassen.	4,400	2	47.2	.....	72	7	23	10	43	0.25	.....	.....	0	2	18	11	2	sw.	A. G. Evans.	
Los Angeles.	Los Angeles.	293	34	66.4	+ 4.1	95	16	51	28	35	0.16	- 0.58	0.16	0	1	18	11	2	w.	U. S. Weather Bureau.	
Los Banos **.	Merced.	121	24	66.3	+ 2.1	87	17	52	5†	0	0.00	- 0.35	0.00	0	0	25	6	0	n.	Southern Pacific Co.	
Los Gatos.	Santa Clara.	600	24	61.1	+ 0.4	91	16	42	3†	36	0.55	- 1.75	0.26	0	4	23	2	6	n.	F. H. McCullagh.	
McCloud.	Siskiyou.	3,410	1	47.6	.....	74	16	25	3†	42	1.53	.....	0.52	0	6	18	13	0	s.	F. F. Spencer.	
Maddel.	do.	4,258	4	43.7	.....	76	7	21	21	47	1.21	.....	0.50	0	3	19	6	6	n.	Butte Valley L. Co.	
Madeline.	Lassen.	5,270	2	43.6	.....	75	16	19	3	52	0.38	.....	0.38	0	1	17	6	8	nw.	J. H. Williams.	
Magalia.	Butte.	2,321	7	58.6	.....	88	18	34	1†	43	1.44	.....	1.00	0	3	23	4	4	se.	Butte Co. R. R. Co.	
Mammoth Tank.	Imperial.	257	33	73.6	- 3.2	98	14	48	24	44	0.50	+ 0.38	0.50	0	1	26	0	5	w.	Southern Pacific Co.	
Marysville.	Yuba.	67	40	61.0	- 4.3	90	17	38	12	43	0.35	- 0.70	0.26	0	2	26	0	5	s.	Do.	
Mecca.	Riverside.	-185	5	71.3	.....	102	15	42	23	46	T.	.....	.....	0	0	25	6	0	e.	E. A. Palmer.	
Menlo Park **.	San Mateo.	64	33	61.8	+ 2.6	86	17	44	10	30	0.20	- 0.81	0.10	0	2	25	0	6	n.	Southern Pacific Co.	
Merced.	Merced.	173	7	61.8	- 3.0	80	7†	42	3	30	0.00	- 0.51	0.00	0	0	29	2	0	nw.	Santa Fe Co.	
Mill Creek (1).	Amador.	4	55.0	.....	83	16	33	2†	41	0.80	.....	0.31	0	5	24	3	4	n.	Cal. Gas & Elec. Co.		
Milton (near).	Calaveras.	660	20	63.6	- 0.6	89	16	42	9	34	0.18	- 1.05	0.18	0	1	24	6	1	nw.	J. H. Southwick.	
Modesto **.	Stanislaus.	90	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	10	2	0	sw.	Southern Pacific Co.	
Mojave.	Kern.	2,751	34	53.0	- 12.6	80	11†	28	18†	44	0.00	- 0.25	0.00	0	0	28	0	3	.....	Do.	
Mokelumne Hill.	Calaveras.	1,550	18	62.2	+ 3.9	90	16	40	2	32	0.73	- 1.01	0.71	0	2	20	4	7	.....	C. E. Pringle.	
Mono Ranch.	Ventura.	3,210	5	54.5	.....	83	16	33	30	40	0.16	.....	0.11	0	2	27	0	4	w.	Herbert Lathrop.	
Montague.	Siskiyou.	2,450	23	50.6	- 5.9	80	7	26	21	48	1.21	- 0.58	0.40	0	7	20	7	4	n.	I. E. Deboy.	
Monterey **.	Monterey.	15	46	55.6	- 2.6	88	16	42	27	37	0.39	- 0.46	0.18	0	3	25	4	2	se.	Southern Pacific Co.	
Monterio.	Kern.	4,500	12	58.8	- 2.9	80	4	42	10†	32	0.40	- 0.61	0.30	0	3	17	9	5	nw.	John C. Knecht.	
Mount Tamalpais.	Martin.	2,375	12	57.4	- 1.3	82	16	41	1	25	0.29	- 1.91	0.20	0	0	2	0	0	sw.	U. S. Weather Bureau.	
Napa City.	Napa.	20	34	57.2	- 1.5	91	16	37	3†	50	0.42	- 0.99	0.32	0	2	19	10	2	sw.	Alex. Hull.	
Napa (S. H.).	do.	60	33	58.7	0.0	92	12	40	2†	45	0.53	- 0.93	0.43	0	2	19	10	2	sw.	W. H. Martin.	
Needles.	San Bernardino.	477	19	70.24	- 2.0	94	8	49	23	35	0.07	- 0.03	0.07	0	1	30	0	1	.....	Santa Fe Co.	
Nelle.	San Diego.	5,350	2	54.8	.....	86	16	31	23	43	0.75	.....	0.75	0	1	25	2	4	sw.	T. O. Bailey.	
Nevada City.	Neveda.	2,580	19	55.6	+ 1.6	93	18	28	2†	54	1.23	- 1.48	0.40	0	5	25	2	4	sw.	S. W. Marsh.	
Newcastle.	Placer.	970	18	56.0	.....	84	15	32	10	38	0.64	.....	0.75	0	1	21	1	8	.....	G. D. Kellogg.	
Newhall **.	Los Angeles.	1,200	34	61.6	- 0.5	94	17	38	27	40	0.28	- 0.44	0.28	0	1	27	2	2	se.	Southern Pacific Co.	
Newman.	Stanislaus.	91	22	65.5	+ 2.0	87	7†	47	31	29	T.	- 0.82	0.7	0	0	31	0	0	n.	E. S. Wangenheim.	
Nimshew.	Butte.	2,500	7	56.0	.....	84	15	32	10	38	0.64	.....	0.96	0	3	22	1	8	.....	Cal. Gas & Elec. Co.	
North Bloomfield.	Nevada.	3,200	14	56.6	+ 1.5	81	7	38	10	26	0.50	- 3.48	0.50	0	1	19	11	1	w.	J. R. McIntosh.	
North Fork.	Madera.	3,000	7	57.0	.....	89	17	31	2†	51	0.30	.....	0.30	0	1	19	9	1	sw.	U. S. Forest Service.	
Oakdale **.	Stanislaus.	156	17	61.0	- 1.5	90	17	40	4†	50	0.27	- 0.87	0.27	0	1	26	4	1	nw.	Southern Pacific Co.	
Oak Grove.	San Diego.	36	35	59.2	+ 0.8	82	16	46	2	30	0.38	- 1.31	0.19	0	3	19	7	5	w.	U. S. Forest Service.	
Oakland.	Alameda.	1	61.1	.....	82	15	34	5†	50	0.49	.....	0.30	0	2	28	1	2	nw.	Cabot Observatory.		
Oceanside.	San Diego.	1	61.6	.....	82	7	47	21†	26	0.33	.....	0.32	0	2	26	1	1	w.	H. D. Brodie.		
Ojai Valley.	Ventura.	900	5	63.4	.....	99	7	38	18†	53	0.14	.....	0.05	0	4	26	2	1	sw.	W. H. Duncan.	
Orland.	Glenn.	254	29	63.0	- 3.4	90	18†	42	11†	43	0.57	- 0.55	0.40	0	4	21	7	3	n.	U. S. Reclamation Service.	
Orleans.	Humboldt.	520	8	61.6	.....	92	18	38	11	39	0.75	.....	0.65	0	4	21	10	0	.....	F. T. Hale.	
Orovillo (near).	Butte.	250	27	61.8	- 4.8	89	15†	41	11	42	0.47	- 1.31	0.47	0	1	23	4	4	s.	E. D. Fairchild.	
Palermo.	do.	213	20	60.8	- 1.1	95	3	35	27	48	0.25	- 1.75	0.25	0	1	22	16	3	n.	Southern Pacific Co.	
Palm Springs.	Riverside.	584	22	71.4	- 3.1	94	4†	58	22†	58	0.05	- 0.10	0.05	0	1	19	7	5	w.	E. D. Sorver.	
Pasadena.	Los Angeles.	827	21	61.5	- 3.3	92	17	39	31	45	0.11	- 0.87	0.06	0	2	27	4	0	nw.	Dr. F. W. Sawyer.	
Paso Robles.	San Luis Obispo.	800	24	58.7	- 1.1	97	17†	32	6†	63	0.13	- 0.86	0.10	0	2	25	4	2	nw.	E. H. Parnell.	
Peachland.	Sonoma.	190	15	58.2	- 0.4	96	18	34	2	54	0.56	- 3.29	0.31	0	3	22	9	0	sw.	Tuolumne Water Power Co.	
Penstock Camp.	Tuolumne.	3,750	4	59.4	.....	84	10†	48	20†	28	0.30	- 1.03	0.17	0	3	16	5	10	nw.	A. Baring-Gould.	
Placerville.	El Dorado.	1,875	22	59.4	+ 3.1	84	10†	48	20	28	0.30	- 1.03	0.17	0	4	15	8	8	nw.	John Hyslop.	
Point Lobos.	San Francisco.	250	18	56.8	+ 2.1	87	16	48	29	23	0.20	- 1.90	0.14	0	4	15	8	8	nw.	U. S. Weather Bureau.	
Point Reyes.	Marin.	490	19	56.8	.....	84	16	48	29	23	0.20	.....	.....	0	4	15	8	8	nw.	Leslie McAuliff.	
Porterville.	Tulare.	464	22	56.4	- 3.2	78	8	21	21	52	0.50	- 2.79	0.25	0	2	26	2	3	sw.	U. S. Forest Service.	
Quince.	Plumas.	3,400	16	46.4	- 3.2	78	8	21	21	52	0.50	- 2.79	0.25	0	2	26	2	3	sw.	U. S. Weather Bureau.	
Red Bluff.	Tehama.	307	34	62.1	- 1.6	90	15	42													

TABLE 1.—*Climatological data for October, 1911. District No. 11—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>California—Continued.</i>																					
Sierraville.	Sierra.	5,000	1	22	47.1	— 2.9	72	7	28	10	38	0.58	— 2.80	0.25	0	4	21	6	4	n.	C. D. Johnson.
Sisson.	Siskiyou.	3,555	22	47.1	+ 5.3	85	31	48	1	0.00	— 0.50	0.00	0	0	28	3	0	0	n.	Southern Pacific Co.	
Soledad **.	Monterey.	188	37	65.1	+ 5.3	85	31	49	12	19	0.12	0.06	0	3	18	5	8	nw.	Do.		
Southeast Farallon.	San Francisco.	30	8	56.0	—	77	18	49	12	39	0.77	— 1.74	0.50	0	3	20	10	1	sw.	U. S. Weather Bureau.	
Sonora.	Tuolumne.	1,825	23	58.1	—	84	16	38	4†	39	0.77	— 1.74	0.50	0	1	28	0	3	n.	Chas. P. Jones.	
Squirrel Inn.	San Bernardino.	5,280	1	55.6	—	77	19	35	2	28	1.23	— 1.23	0.82	0	3	19	4	8	se.	A. D. Frantz.	
Stirling City.	Butte.	3,525	7	57.4	—	82	22	32	2†	40	1.72	— 1.72	0.82	0	1	25	6	0	nw.	Butte Co. R. R. Co.	
Stockton (S. H.).	San Joaquin.	23	40	59.5	— 2.2	85	8†	41	11†	37	0.03	— 0.59	0.03	0	1	25	0	1	nw.	State Hospital.	
Storey.	Madera.	295	11	59.5	— 3.3	90	7†	38	3†	49	0.00	— 0.22	0.00	0	0	30	0	1	nw.	Santa Fe Co.	
Suisun **.	Solano.	20	31	57.6	— 5.4	67	17	49	25	—	0.01	— 1.13	0.01	0	1	24	3	4	w.	Southern Pacific Co.	
Summerdale.	Mariposa.	5,270	15	53.7	+ 4.4	86	15	28	2	38	0.20	— 3.43	0.20	0	1	22	7	2	sw.	Mrs. J. E. Lowry.	
Summit.	Placer.	7,017	38	44.0	0.0	68	18	24	2	37	0.60	— 1.92	0.30	3.0	3	26	0	5	sw.	Southern Pacific Co.	
Susanville.	Lassen.	4,175	22	46.6	— 4.0	72	17	25	21†	42	0.25	— 1.40	0.25	0	1	18	12	1	sw.	James Branham.	
Tamarack.	Alpine.	8,000	5	38.2	—	67	22	13	2†	40	1.44	—	0.50	14.5	5	21	7	3	se.	William Bennett.	
Tehachapi **.	Kern.	3,964	34	57.3	+ 1.2	72	18	41	30	—	0.57	+ 0.12	0.57	0	1	25	0	6	sw.	Southern Pacific Co.	
Tehama **.	Tehama.	220	40	60.6	— 3.8	87	17	46	3	—	0.40	— 0.88	0.20	0	2	25	0	6	sw.	Do.	
Tejon Rancho.	Kern.	1,500	9	57.6	—	82	9	40	26	32	0.40	—	0.22	0	4	24	1	6	n.	S. E. Bailey.	
Three Rivers.	Tulare.	870	1	61.2	—	92	8	38	5†	47	0.07	—	0.07	0	1	22	9	0	sw.	E. D. Barton.	
Towle.	Placer.	3,704	25	54.0	— 1.8	85	15	30	2†	43	1.37	— 1.24	0.59	0	4	19	4	8	w.	Southern Pacific Co.	
Tracy **.	San Joaquin.	64	31	69.6	— 6.1	84	16†	50	30	—	0.00	— 0.60	0.00	0	0	23	2	6	nw.	Do.	
Ukiah.	Mendocino.	620	18	57.9	— 0.5	94	18	33	30	53	1.70	— 0.04	0.70	0	3	20	6	5	nw.	Dr. Geo. McCowen.	
Upland.	San Bernardino.	1,750	14	63.8	+ 1.3	93	16	42	28	40	0.20	— 0.90	0.20	0	1	28	3	0	w.	A. P. Harwood.	
Upper Lake.	Lake.	1,350	26	59.9	+ 0.1	94	16	33	5†	52	0.99	— 0.50	0.44	0	4	23	4	4	nw.	C. M. Hammond.	
Vacaville.	Solano.	175	23	61.8	— 2.6	93	16†	36	2	51	0.48	— 0.96	0.48	0	1	20	11	0	n.	G. O. Coburn.	
Valley Springs **.	Calaveras.	673	22	64.7	+ 1.5	90	15	47	5†	—	0.37	— 1.06	0.20	0	3	24	6	1	n.	Southern Pacific Co.	
Visalia.	Tulare.	334	23	59.6	— 2.4	91	8	35	4†	50	0.00	— 0.60	0.00	0	0	29	2	0	sw.	Santa Fe Co.	
Warner Springs.	San Diego.	3,165	3	61.0	—	92	17	36	31	49	0.25	— 0.25	0.25	0	1	29	2	0	sw.	Mrs. F. S. Sandford.	
Wasco.	Kern.	336	11	—	—	96	16	30	23†	53	1.71	— 0.06	1.53	0	3	14	14	3	w.	Santa Fe Co.	
Watsonville.	Santa Cruz.	23	15	57.5	— 0.9	96	16	34	31	36	3.38	—	1.13	0	8	25	3	3	w.	Spreckels Sugar Co.	
Weitchpec.	Humboldt.	1,700	1	53.8	—	80	18	34	28	—	0.00	— 0.83	0.00	0	0	27	0	4	sw.	M. E. Lathrop.	
Westley **.	Stanislaus.	90	22	64.5	— 1.7	87	16†	40	28	—	0.00	— 0.83	0.00	0	5	21	6	4	s.	Southern Pacific Co.	
Wheatland.	Yuba.	84	24	59.8	— 2.7	87	18	40	2	38	0.51	— 1.16	0.21	0	5	21	6	4	s.	Wm. Lumbard.	
Willows.	Glenn.	136	32	61.4	— 3.8	88	15	40	2†	42	0.25	— 0.74	0.20	0	2	—	—	—	—	L. C. Stiles.	
Yosemite.	Mariposa.	3,945	7	53.2	—	96	18	24	31	63	0.63	—	0.50	0	3	16	8	7	n.	J. P. Kelly.	

\*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1911. District No. 11, California.*

TABLE 2.—*Daily precipitation for October, 1911. District No. 11—Continued.*

Stations.	Watersheds	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
California—Contd.																																	
Gilroy.	Coast.	.01																															0.58
Gilta.	do.	.02																														2.25	
Glendora.	do.																															0.28	
Glen Ranch.	do.																															0.27	
Glenville.	San Joaquin Coast.																															2.34	
Glenwood.	Coast.	.45																														1.27	
Gold Run.	Sacramento Coast.																															0.00	
Gonzales.	Coast.																															1.42	
Grass Valley.	Sacramento Coast.	.06																														0.41	
Greenville.	do.	T.																														0.58	
Gridley.	do.																															0.66	
Groveland.	San Joaquin Coast.	.14																														0.03	
Guinda.	Sacramento Coast.																															0.02	
Hanford.	San Joaquin Coast.	.02																														2.03	
Head Dam.	Sacramento Coast.	.03																														0.54	
Headsburg.	Coast.	.14																														1.35	
Hearst.	do.	.40																														0.37	
Heber.	Desert.																															0.37	
Helen Mine.	Coast.	.40																														1.28	
Hesperia.	Desert.																															0.03	
Hetch Hetchy.	San Joaquin Coast.																															0.02	
Holcomb.	Coast.																															2.03	
Hollister.	do.																															0.54	
Hornbrook.	Klamath Coast.																															0.22	
Hot Springs.	San Joaquin Coast.	.01																														0.38	
Hullville.	Coast.	.22																														0.12	
Idyllwild.	do.																															0.77	
Independence.	Owens Desert.																															0.43	
Indio.	Desert.																															0.00	
Inskip.	Sacramento Coast.	.21																														1.66	
Ione.	San Joaquin Coast.	.28																														0.50	
Jacksonville.	do.	.30																														0.41	
Jamestown.	do.	.15																														0.86	
Jenny Lind.	do.																															0.20	
Jolon.	Coast.																															0.45	
Julian.	T.																															0.60	
Kennedy Mine.	San Joaquin Coast.																															10.89	
Kennett.	Sacramento Coast.	.08																														1.06	
Kentfield.	Coast.																															0.10	
Kernville.	San Joaquin Coast.																															0.00	
King City.	Coast.																															0.05	
Knights Landing.	Sacramento Coast.	.02																														0.10	
La Grange.	San Joaquin Coast.	.36																														0.42	
Lake Eleanor.	do.																															0.00	
Lakeside.	Coast.																															0.00	
La Porte.	Sacramento Coast.	1.00																														4.11	
Lathrop.	San Joaquin Coast.	.02																														0.02	
Laurel.	Coast.																															2.35	
Laytonville.	do.																															0.00	
Le Grand.	San Joaquin Coast.																															0.00	
Lemon Cove.	do.																															0.00	
Lick Observatory.	Coast.	.08																														0.00	
Livermore.	do.	.02																														0.46	
Lodi.	San Joaquin Coast.	.35																														0.42	
Lone Pine.	Owens Coast.																															0.63	
Long Camp.	San Joaquin Coast.																															0.25	
Long Valley.	M'nt Lakes Coast.																															0.00	
Lordsburg.	do.																															0.00	
Los Alamos.	do.																															0.16	
Los Angeles.	do.																															0.00	
Los Banos.	San Joaquin Coast.																															0.00	
Los Gatos.	Coast.	.20																														0.55	
Los Molinos.	Sacramento Coast.	.08	T.	.15																											0.74		
Low Observatory.	Coast.																															0.20	
McCloud.	Sacramento Coast.	.13																														1.53	
Maddoel.	Klamath Coast.	.40																														1.21	
Madeline.	M'nt Lakes Coast.	.06																														0.50	
Magalia.	Sacramento Coast.																															1.44	
Manmooth Tank.	Desert.																															0.50	
Mariposa.	San Joaquin Coast.	.21																														0.28	
Marysville.	Sacramento Coast.	.09																														0.35	
Mecca.	Desert.																															0.60	
Melones.	Sacramento Coast.	.60																														0.20	
Menlo Park.	Coast.	.10																														0.00	
Mered.	San Joaquin Coast.																															0.16	
Mered Falls.	do.																																

TABLE 2.—*Daily precipitation for October, 1911. District No. 11—Continued.*

Stations.	Watersheds.	Day of month.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
California—Contd.																																	
Newman.....	San Joaquin.		T.							T.																							T.
Nimshew.....	Sacramento.	.38									.96																						1.64
North Bloomfield.....	do	.50			T.							.30																				0.50	
North Fork.....	San Joaquin.	T.										.14	.15																		0.30		
North Lakeport.....	Coast.	.50																														0.82	
Oakdale.....	San Joaquin.			.27																												0.27	
Oakgrove.....	Coast.																															0.49	
Oakland.....	do	.19																														0.38	
Oakville.....	do	.04																														0.29	
Oceanside.....	do																															0.33	
Ojai Valley.....	do																															0.14	
Orland.....	Sacramento.	.40																														0.57	
Orleans.....	Klamath.			.53																												1.75	
Oroville.....	Sacramento.																															0.47	
Ozeana.....	Coast.																															0.25	
Palermo.....	Sacramento.																															0.05	
Palm Springs.....	Desert.																															0.00	
Parkfield.....	Coast.																															0.11	
Pasadena.....	do																															0.13	
Paso Robles.....	do																															0.56	
Peachland.....	do	.12																														0.42	
Penstock Camp.....	San Joaquin.																															0.11	
Phoenix Dam.....	do	.11																														1.41	
Pilot Creek.....	Sacramento.	.06			.39																											0.47	
Pinchot.....	Coast.																															0.20	
Pine Crest.....	do																															0.15	
Placerville.....	Sacramento.																															0.50	
Point Lobos.....	Coast.	.17																														0.30	
Point Loma.....	do	.04																														0.50	
Point Reyes.....	do	.04																														0.20	
Polasky.....	San Joaquin.	.06																														0.15	
Porterville.....	do																															0.40	
Portulaca.....	Sacramento.																															0.25	
Prattville.....	Priest Valley.																															0.18	
Quincy.....	Sacramento.																															0.50	
Red Bluff.....	do	.05																														0.82	
Redding.....	do																															0.59	
Redlands.....	Coast.																															0.71	
Reedley.....	San Joaquin.																															0.00	
Repressa.....	Sacramento.	.08																														0.24	
Rialto (near).....	Coast.																															0.42	
Rio Vista.....	Sacramento.																															0.21	
Riverside.....	Coast.																															0.40	
Rocklin.....	Sacramento.																															0.20	
Rohnerville.....	Coast.	.20	.15	.15																												1.23	
Sacramento (1).....	Sacramento.	.18																														0.18	
Sacramento (2).....	do																															0.47	
St. Helena.....	Coast.	.03																														0.21	
Salinas.....	do																															0.50	
San Bernardino.....	do																															0.85	
San Diego.....	do																															0.28	
San Francisco.....	do	.16																														0.28	
San Jacinto.....	do																															0.28	
San Jose.....	do	.23																														0.30	
San Leandro.....	do																															0.05	
San Luis Obispo.....	do																															0.06	
San Mateo.....	do																															0.06	
San Miguel.....	Ocean.																															0.06	
San Miguel Island.....	do																															0.06	
Sanger.....	do																															0.95	
Santa Ana River.....	Coast.																															0.28	
Santa Barbara.....	do																															0.07	
Santa Clara.....	do	.08	.15	.01																											0.22		
Santa Cruz.....	do																															0.85	
Santa Margarita.....	do																															0.00	
Santa Maria.....	do																															T.	
Santa Monica.....	do																															0.34	
Santa Rosa.....	do																															0.09	
Sausalito.....	do																															0.53	
Sealma.....	San Joaquin.																															0.17	
Seven Oaks.....	Coast.																															0.16	
Shasta.....	Sacramento.	.51																														0.58	
Shingle Springs.....	do																															0.00	
Sierra Madre.....	Coast.																															0.77	
Sisquoc Ranch.....	M'tn Lakes.																															0.12	
Sisson.....	Sacramento																																

TABLE 2.—*Daily precipitation for October, 1911. District No. 11—Continued.*

Stations.	Watersheds.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>California—Contd.</i>																																		
Ukiah.....	Coast.....	.70																																1.70
Upland.....	do.....																																0.20	
Upper Lake.....	Sacramento.....	.44																															0.99	
Upper Mattole.....	Coast.....	.72																															.03	3.42
Vaca Valley.....	Sacramento.....																																0.48	
Valley Springs.....	San Joaquin.....	.20																															0.37	
Visalia.....	do.....																																0.00	
Warner Springs.....	Coast.....																																0.25	
Wasco.....	San Joaquin.....																																0.00	
Watsonville.....	Coast.....	.04																															1.71	
Weitchpec.....	Klamath.....	.07																															3.38	
West Branch.....	Sacramento.....	.18	.19																														1.89	
Westley.....	San Joaquin.....																																0.00	
West Point.....	do.....																																0.85	
West Saticoy.....	Coast.....																																0.29	
Wheatland.....	Sacramento.....	.03																															0.51	
Willows.....	do.....	.05																															0.25	
Yosemite.....	San Joaquin.....																																0.03	

\* Precipitation included in that of the next measurement.  
† Separate dates of falls not recorded.

||| Precipitation for the 24 hours ending on the morning when it is measured.  
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1911. District No. 11, California.

Date.	Lakeview, Ore.		California.																									
			Alturas. <sup>§</sup>		Barstow.		Branscomb.		Brawly.		Colusa.		Eureka.		Fresno.		Independ- ence.		Los Ange- les.		Mount Ta- malpais.		Nevada City.		Porter- ville.		Red Bluff.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.			60	43	80	57	48	42	92	64	67	40	56	47 <sup>a</sup>	70	49	74	46	71	57	53	41	61	40			60	46
2.			55	28	82	57	59	32	83	61	68	39	57	45	70	44	64	39	74	51	62	41	66	28			71	42
3.			60	19	82	55	60	34	89	53	72	44	61	44	78	46	67	35	84	58	61	47	75	31			69	43
4.			53	35	83	50	70	33	85	57	67	52	58	46	72	45	74	40	79	58	52	43	56	42			67	52
5.			65	25	83	50	76	37	94	59	74	41	58	44	73	44	70	40	72	54	66	48	76	30			76	47
6.			78	25	90	64	78	38	—	—	75	42	60	46	83	49	73	33	88	55	68	58	82	34			78	48
7.			79	30	90	64	74	40	94	50	78	43	60	49	90	50	77	38	92	64	77	57	89	33			83	48
8.			72	35	95	51	75	41	95	65	75	40	60	48	90	57	78	52	80	58	58	44	78	38			73	52
9.			61	38	77	55	60	36	—	—	74	45	58	46	70	51	68	38	95	54	64	43	64	36			63	49
10.			56	28	85	54	67	31	87	53	71	40	56	41	72	44	65	36	84	55	62	44	72	28			70	44
11.			68	21	88	54	69	36	89	50	73	43	57	44	79	44	68	34	77	55	70	53	78	30			76	48
12.			76	25	88	44	74	39	92	49	75	40	61	46	87	48	72	34	79	55	68	56	83	33			77	45
13.			71	30	91	53	65	38	96	53	77	48	64	50	87	48	74	36	78	53	62	49	75	36			76	45
14.			63	41	90	55	74	39	97	53	76	47	58	48	77	52	81	39	81	53	66	48	77	36			77	50
15.			73	21	93	58	81	40	97	53	87	65	71	47	84	52	82	57	72	62	90	37	—	—			90	66
16.			77	25	90	46	88	44	92	59	84	48	67	50	91	53	78	40	95	60	82	68	90	39			85	57
17.			78	25	91	45	84	41	95	48	82	46	56	49	91	56	78	39	90	60	81	69	90	39			84	53
18.			66	23	96	63	79	41	93	50	85	48	71	45	87	54	78	46	75	55	78	65	93	39			84	62
19.			69	23	89	45	76	40	88	50	81	63	73	47	86	51	73	45	72	57	72	62	77	42			82	62
20.			67	20	86	51	71	40	83	—	82	45	70	50	84	52	74	38	69	56	67	63	83	38			84	54
21.			74	18	84	57	70	39	85	41	74	44	55	50	83	48	88	40	79	53	65	49	80	35			80	48
22.			72	19	85	48	72	39	87	41	71	43	60	52	80	46	70	34	81	54	59	43	79	36			74	48
23.			71	21	88	41	73	39	—	—	71	42	58	52	79	46	70	34	81	54	64	50	78	35			75	46
24.			70	30	82	42	74	38	83	50	65	47	59	49	77	50	72	39	78	56	64	56	78	38			77	52
25.			58	24	83	46	75	39	82	48	71	40	56	50	81	47	74	37	76	52	71	46	71	35			72	46
Mns.			67.3	26.5	85.2	51.7	71.3	37.7	88.0	52.7	73.5	44.7	59.9	46.9	78.9	48.6	71.5	39.2	77.2	55.5	64.4	50.5	75.6	35.5			74.8	49.6

Date.	California.																				Susanville.	Yosemite.				
	Redlands.		Sacra- mento.		San Diego.		San Francisco.		San Jose.		San Luis Obispo.		Santa Barbara.		Santa Rosa.		Sisson.		Stockton.		Summit.					
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1.	73	54	64	49	68	62	62	53	68	43	66	52	75	50	—	—	49	35	68	49	39	28	58	32	68	38
2.	76	47	69	45	68	56	66	50	70	43	70	48	78	57	—	—	55	29	67	46	24	24	59	30	64	27
3.	85	45	72	56	79	53	64	51	71	40	77	47	81	49	—	—	55	33	68	44	51	28	75	26	60	28
4.	84	48	66	49	70	58	61	54	66	44	68	43	80	45	—	—	51	29	68	52	32	27	48	38	60	28
5.	78	44	77	44	70	58	67	52	74	38	70	49	79	48	—	—	60	31	70	45	50	28	58	31	72	25
6.	88	48	76	50	74	54	77	52	80	40	86	49	87	47	—	—	70	36	76	44	62	35	63	31	82	28
7.	92	52	83	51	84	60	76	51	90	44	91	48	92	50	—	—	72	45	82	46	38	33	85	30	85	30
8.	90	56	69	54	70	61	63	52	75	46	71	45	73	57	—	—	70	32	85	48	57	42	69	35	85	30
9.	73	49	65	51	68	56	64	54	65	45	65	49	80	49	—	—	50	33	70	50	42	25	54	38	65	29
10.	84	44	71	46	70	52	66	52	71	39	74	54	80	47	—	—	49	28	68	42	48	25	56	38	75	29
11.	85	47	76	46	88	54	76	53	79	39	82	53	72	47	—	—	60	37	67	41	56	28	59	36	85	29
12.	91	47	80	48	69	53	71	54	81	40	78	46	70	47	—	—	65	35	78	42	61	32	65	29	81	29
13.	88	50	75	50	70	52	67	52	72	43	73	42	72	50	—	—	55	38	76	46	57	38	72	28	82	28
14.	88	50	76	50	72	54	71	54	74	50	81	47	76	47	—	—	56	35	77	52	62	41	64	38	84	27
15.	95	50	85	54	68	50	81	56	85	46	92	60	77	46	—	—	55	36	80	47	63	35	64	28	91	30
16.	94	54	86	55	83	55	87	62	90	42	95	50	94	48	—	—	57	38	85	50	65	35	66	30	86	30
17.	93	55	84	57	70	57	83																			